

COROLIT

Single-component dry mortar for thin-layered lining of sewerage and water piping

1. Product characteristics

COROLIT is a single-component dry mortar mix on the basis of specially ground Portland cement containing abrasion resistant components, mineral fillers and other components enhancing resistance to corrosion, adhesion and volume stability of the product.

- mixed with water only
- applied by wet spraying
- internally hydrophobised
- perfect mechanical properties, compensated in volume
- enhanced chemical resistance, permanently resists to environment with pH between 3 - 13
- enhanced abrasion resistance
- provides permanent alkaline anticorrosive protection to the metal base

2. Use

COROLIT is applied to properly prepared inner surface of concrete, cast iron or steel piping by wet spraying. It can be applied by classical manual methods (fining off, casting into formwork) if needed. It provides the treated surfaces with long-termed protection against corrosion and aggressive effects of wastewater. The mortar can be worked up and applied easily by common techniques. The mortar **COROLIT** is fully compatible with cement materials and its alkalinity passivates a metal base.

3. Physical and mechanical parameters

Color	non-standard grey	
Max. grain size (mm)	up to 1.0	
Tensile bending strength (MPa)	7 days 28 days	> 7 > 10
Compressive strength (MPa)	7 days 28 days	> 35 > 55
Adhesion to concrete base (MPa)	> 1.5	
Water-tightness	V12	
Corrosion resistance	permanently	pH 3-13
	single exposure *)	pH 2-14.0

*) exposed for max 12 hours

4. Test certificates

The product is certified according to § 12 of Act No. 22/1997 Coll. and according to § 6 of Government Decree No. 163/2002 Coll. as amended. Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of quality management, environmental and OSH systems is performed by Certification Body No. 3029.

5. Instruction for preparation and application

Base. Any sediment and deposit, corrosive products as well as surface finishes or substances negatively effecting adhesion to the base shall be removed from the base. Any incoherent, loose, weatherworn or otherwise visibly damaged concrete shall be completely removed from the concrete piping.

Preparation of mortar. **COROLIT** is prepared by mixing of necessary quantity of dry mortar with measured quantity of water. The mixing ratio is specified in the following table:

COROLIT	dry component (kg)	water (liters)
	25	3,75 ÷ 4,05

Optimum quantity of batching water can fluctuate within the given interval as usual for mortars containing cement binder.

Workability of the product is 50 - 60 minutes at 20°C.

Neither **temperature of base** nor temperature of ambient air shall be below + 5°C and above + 30°C.

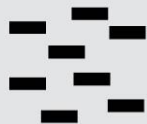
Application of the mortar. The **COROLIT** mortar was developed especially for mechanical application by wet spraying. It can be applied by classical manual methods (fining off, casting into formwork) if needed. The recommended thickness of one sprayed layer is 2 - 5 mm.



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Treatment of lining. Undesirable evaporation of the batch water shall be prevented after application especially by closing of corresponding sections of treated piping. App. 8 hours after the application it is recommended to flood the piping by water at least partly if possible.

6. Specific consumption

Spreading capacity (specific consumption) of the dry mortar amounts to $1.8 \div 1.9 \text{ kg/m}^2$ at 1 mm of layer thickness.

7. Packing and storage

The product is supplied in PE lined paper bags of 25 kg. **COROLIT** must be efficiently protected against moisture during storing and transportation.

The shelf life of the product in original undamaged packing is 6 months.

After the expiration of min. shelf life, which is stated on the packaging, ingredients are not fully effective at reducing chromium VI below 2 ppm.

8. Health protection at work

Handling the **COROLIT** dry mortar mix does not require any extraordinary hygienic precautions. The product contains alkalis and therefore any contamination of mainly eyes or mucous membrane must be prevented. Health and labor safety rules applicable to work with cement or lime mortars are to be adhered to.

Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (par. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request:

This product is subject to Regulation (EC) No. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).

9. Waste disposal

During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove, that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received orders subject to our current "General sales and delivery conditions ". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz

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